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**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on December 29, 2003 in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR §1.10, Mailing Label Number EV332828220US, addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

  
 Ryan Eachus

Attorney Docket No.: UCALP020

First Named Inventor: Richard A. Mathies

**UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR. § 1.53(b))**  
 (Regular application claiming priority of a provisional)



Mail Stop Patent Application  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir: This is a request for filing a patent application under 37 CFR. § 1.53(b) in the name of inventors:  
**Richard A. Mathies, William H. Grover, Brian Paegel, Alison Skelley, Eric Lagally, Chung N. Liu  
 and Robert Blazej**

For: **FLUID CONTROL STRUCTURES IN MICROFLUIDIC DEVICES**

Assigned to: The Regents of the University of California

Priority of U.S. provisional application No. 60/475,013 filed on May 30, 2003 and 60/437,262 filed on December 30, 2002 is claimed under 35 U.S.C. § 119(e).

☐ Amend the specification by inserting after the title the sentence: "This application claims priority of U.S. provisional application No. \_\_\_\_\_ filed on \_\_\_\_\_ which is hereby incorporated by reference."

Application Elements:

- ☒ **36** Pages of Specification, Claims and Abstract  
☒ **15** Sheets of formal Drawings  
☐ Combined Declaration and Power of Attorney  
☐ Separate Declaration

Accompanying Application Parts:

- ☐ Do not publish this application. Nonpublication Request is attached.  
☐ Assignment and Assignment Recordation Cover Sheet (recording fee of \$40.00 enclosed)  
☐ Separate Power of Attorney by Assignee  
☐ 37 CFR 3.73(b) Statement by Assignee  
☐ Information Disclosure Statement with Form PTO-1449  
☐ Preliminary Amendment  
☒ Return Receipt Postcard
- ☐ Copies of IDS Citations

Claim For Foreign Priority

- ☐ Priority of \_\_\_\_\_ Application No. \_\_\_\_\_ filed on \_\_\_\_\_  
is claimed under 35 U.S.C. § 119.
- ☐ The certified copy is enclosed.
- ☐ The certified copy has been filed in prior application U.S. Application No. \_\_\_\_\_
- ☐ The certified copy will follow.

Fee Calculation (37 CFR § 1.16)

- ☒ Applicant is entitled to Small Entity Status under 37 C.F.R. §1.27.

	(Col. 1) Total Claims		(Col. 2) Claims	(Col. 3) Present Extra	Rate	Additional Fee
TOTAL	44	MINUS	20	= 24	x 18 =	432.00
INDEP.	6	MINUS	3	= 3	x 86 =	258.00
[ ] First presentation of multiple dependent claim					\$290 =	
Basic Filing Fee under 37 C.F.R. §1.16(a)					\$770 =	770.00
TOTAL						1,460.00
SMALL ENTITY 50% FILING FEE REDUCTION (if applicable)						730.00

**PLEASE DEFER FILING FEES AT THIS TIME**

General Authorization for Petition for Extension of Time (37 CFR §1.136)


☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed to Deposit Account No. 500388 (Order No. UCALP020).

- ☒ Please send correspondence to the following address:

**Customer Number 022434**

022434

Date: December 29, 2003



**Godfrey K. Kwan**  
Registration No. 46,850